"A METHOD OF AND COMPOSITION FOR PREVENTING TISSUE DAMAGE"

WE CLAIM:

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	1. A method of protecting tissue and preventing
tissue damage in surgery comprising providing surfaces	
involved i	n said surgery with a wet coating of a physio-
logically	acceptable aqueous solution of a hydrophilic,
polymeric	material prior to manipulation of said tissue
during sai	d surgery, wherein:

- A) said polymeric material is a watersoluble, biocompatible, pharmaceutically acceptable polypeptide, polysaccharide, excluding
 hyaluronic acid having a molecular weight above
 about 1,500,000, synthetic polymer, salt, complex
 or mixture thereof; and
- B) said polymeric material has a molecular weight of about 50,000 D or above, and the concentration in said aqueous solution of said polymer is in the range of from about 0.01% to about 15% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces involved in said surgery.

2. The method of claim 1 wherein said polymeric material is carboxymethylcellulose, PVP, hyaluronic acid, pharmaceutically acceptable salts or complexes thereof or mixtures thereof.

- 3. The method of claim 2 wherein said polymeric material is carboxymethylcellulose or a pharmaceutically acceptable salt or complex thereof.
- 4. The method of claim 2 wherein said polymeric material is PVP or a pharmaceutically acceptable salt or complex thereof.
 - 5. The method of claim 2 wherein said polymeric material is hyaluronic acid or a pharmaceutically acceptable salt or complex thereof.
 - 6. The method of claim 1 wherein said surgery is abdominal, peritoneal, pericardial, obstetric, gynecological, neurosurgical, arthroscopic, laparoscopic, endoscopic, orthopedic, plastic, reconstructive, prosthetic, ENT, dental, muscle or tendon.
 - 7. The method of claim 1 wherein said involved surfaces coated with said solution of polymeric material comprise tissue or surgical article surfaces or both.

8. A method of protecting tissue and preventing tissue damage in surgery comprising providing surfaces involved in said surgery with a wet coating of a physiologically acceptable aqueous solution of a hydrophilic, polymeric material prior to manipulation of said tissue during said surgery, wherein:

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- A) said polymeric material is a water-soluble, biocompatible, pharmaceutically acceptable hyaluronic acid having a molecular weight above about 1,500,000, salt, complex or mixture thereof; and
- B) the concentration in said aqueous solution of said hyaluronic acid, salt or complex is in the range of from about 0.01% to less than about 1% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces involved in said surgery.
- 9. The method of claim 8 wherein said surgery is abdominal, peritoneal, pericardial, obstetric, gynecological, neurosurgical, arthroscopic, laparoscopic, endoscopic, orthopedic, plastic, reconstructive, prosthetic, ENT, dental, muscle or tendon.

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- 11. A surgical article having surfaces adapted for contacting tissue surfaces during surgery, said surfaces of said surgical article having a wet coating thereon, said wet coating comprising a physiologically acceptable aqueous solution of a hydrophilic, polymeric material wherein:
 - A) said polymeric material is a watersoluble, biocompatible, pharmaceutically acceptable polypeptide, polysaccharide, excluding
 hyaluronic acid having a molecular weight above
 about 1,500,000, synthetic polymer, salt, complex
 or mixture thereof; and
 - B) a molecular weight of about 50,000 D or above, and the concentration in said aqueous solution of said polymer is in the range of from about 0.01% to about 15% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces; or

a physiologically acceptable aqueous solution of a hydrophilic, polymeric material, wherein:

I) said polymeric material is a water-soluble, biocompatible, pharmaceutically acceptable hyaluronic acid having a molecular weight above about 1,500,000, salt, complex or mixture thereof; and

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- II) the concentration in said aqueous solution of said hyaluronic acid, salt or complex is in the range of from about 0.01% to less than about 1% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces.
- organs during harvesting thereof from animals or humans, manufacture therefrom of bioprostneses and subsequent manipulations and implantations of said bioprostneses in animals or humans, comprising providing said tissue or organ surfaces with a wet coating of a physiologically acceptable aqueous solution of a hydrophilic, polymeric material prior to and during said harvesting, manufacture of bioprostneses, manipulations and implantations thereof, wherein:

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B) said polymeric material has a molecular weight of about 50,000 D or above, and the concentration in said aqueous solution of said polymer is in the range of from about 0.01% to about 15% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces.

13. A bioprosthesis comprised at least in part of tissue or an organ or part thereof of an animal or human, said tissue or organ or part thereof having a coating thereon of a physiologically acceptable aqueous solution of a hydrophilic, polymer material to protect said tissue or organ or part thereof from damage arising during harvesting thereof from said animal or human, manufacture of said bioprosthesis and manipulations and implantations of said bioprosthesis in animals or humans, wherein:

A) said polymeric material is a watersoluble, biocompatible, pharmaceutically acceptable polypeptide, polysaccharide excluding
hyaluronic acid having a molecular weight above
about 1,500,000, synthetic polymer, salt, complex
or mixture thereof; and

- B) said polymeric material has a molecular weight of about 50,000 D or above, and the concentration in said aqueous solution of said polymer is in the range of from about 0.01% to about 15% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces.
- organs or parts thereof during harvesting thereof from animals or humans, subsequent manipulations and implantations of said tissues or organs or parts thereof in animals or humans, comprising providing said tissue and organ surfaces with a wet coating of a physiologically acceptable aqueous solution of a hydrophilic, polymeric material prior to and during said harvesting, manipulations and implantations thereof, wherein:

A) said polymeric material is a watersoluble, biocompatible, pharmaceutically acceptable polypeptide, polysaccharide, excluding
hyaluronic acid having a molecular weight above
about 1,500,000, synthetic polymer, salt, complex
or mixture thereof; and

B) said polymeric material has a molecular

B) said polymeric material has a molecular weight of about 50,000 D or above, and the concentration in said aqueous solution of said polymer is in the range of from about 0.01% to about 15% by weight, said molecular weight and concentration having values such that said aqueous solution is capable of providing wet coatings on said surfaces.